

WO 00/79006

PCT/US00/16722

SEQUENCE LISTING

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<120> OLIGONUCLEOTIDE ARRAYS FOR HIGH RESOLUTION HLA TYPING

<130> 14538A-52-1PC

<140> PCT/US00/

<141> 2000-06-16

<150> 60/139,843

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<160> 141

<170> PatentIn Ver. 2.1

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Exon 3, Location 5-24.

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Exon 3, Location 5-24.

<400> 2

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WO 00/79006

PCT/US00/16722

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Exon 3, Location 5-24.

<400> 3

tcacacttgg cagacgatgt

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Exon 3, Location 5-24.

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Exon 3, Location 5-24.

<400> 5

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

<400> 6

tcacaccctc cagacgatgt

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WO 00/79006

PCT/US00/16722

<210> 7
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Exon 3, Location 5-24.

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Exon 3, Location 5-24.

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tcacatcatc cagagcatgt 20

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Exon 3, Location 5-24.

<400> 9
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Exon 3, Location 5-24.

WO 00/79006

PCT/US00/16722

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<210> 11
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Exon 3, Location 5-24.

<400> 11
tcacaccctc cagaggatgt 20

<210> 12
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Exon 3, location 21-40.

<400> 12
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Exon 3, location 21-40.

<400> 13
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WO 00/79006

PCT/US00/16722

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Exon 3, location 21-40.

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Exon 3, location 21-40.

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<212> DNA

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Exon 3, location 21-40.

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<212> DNA

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 17

atgtacggct gcgacctggg

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WO 00/79006

PCT/US00/16722

<210> 18
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Exon 3, location 21-40.

<400> 18
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<210> 19
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 19
atgtatggct gcgacatggg 20

<210> 20
<211> 20
<212> DNA
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 20
atgtatggct gcgacgtggg 20

<210> 21
<211> 20
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 41-60.

WO 00/79006

PCT/US00/16722

<400> 21
gcccgcacggg cgcctcctcc

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<210> 22
<211> 20
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 41-60.

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<210> 23
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<212> DNA
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 41-60.

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gccggacggg cgcctcctcc

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<210> 24
<211> 20
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Exon 3, location 61-80.

<400> 24
gcgggcatga ccagtacgcc

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<210> 25
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WO 00/79006

PCT/US00/16722

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 25

gcgggcataa ccagtagcc

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<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 26

gcgggcataa ccagtagcc

20

<210> 27

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 27

gcgggtataa ccagttcgcc

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<210> 28

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 28

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<210> 29

WO 00/79006

PCT/US00/16722

<211> 20

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 29

gcgggtatga ccagtccgcc

20

<210> 30

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 30

gcgggtacca ccaggacgcc

20

<210> 31

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 31

gcgggcatga ccagttcgcc

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<210> 32

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 32

WO 00/79006

PCT/US00/16722

gcgggcataa ccagttcgcc

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<210> 33

<211> 20

<212> DNA

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<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 33

gcgggtatga ccaggacgcc

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<210> 34

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 34

gcgggtataa ccagttagcc

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<210> 35

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 35

gcgggtatga ccagtacgcc

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<210> 36

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WO 00/79006

PCT/US00/16722

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 81-100.

<400> 36

tacgacggca aagattacat

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<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 81-100.

<400> 37

tacgacggca aggattacat

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<210> 38

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 111-130.

<400> 38

gaggacctga gctcctggac

20

<210> 39

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 111-130.

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gaggacctgc gctcctggac

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<210> 40

<211> 20

WO 00/79006

PCT/US00/16722

<212> DNA

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<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 131-150.

<400> 40

cgccgcggac acggcggctc

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<210> 41

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 131-150.

<400> 41

cgcggcggac accgcggctc

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<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 131-150.

<400> 42

cgccgcggac aaggcggctc

20

<210> 43

<211> 20

<212> DNA

<213> Artificial Sequence

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Exon Location 131-150.

<400> 43

cgccgcggac acggcagctc

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WO 00/79006

PCT/US00/16722

<210> 44
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Exon Location 131-150.

<400> 44
cgccgcggac accgcggctc 20

<210> 45
<211> 20
<212> DNA
<213> Artificial Sequence

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Exon Location 131-150.

<400> 45
cgcggcggac acggcggctc 20

<210> 46
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<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 151-170.

<400> 46
agatcaccca gctcaagtgg 20

<210> 47
<211> 20
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA

WO 00/79006

PCT/US00/16722

Exon Location 151-170.

<400> 47

agatctccca gcgcaagttg

20

<210> 48

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 151-170.

<400> 48

agatcaccca gcgcaagtgg

20

<210> 49

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 171-190.

<400> 49

gaggcggccc gtgaggcgga

20

<210> 50

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 171-190.

<400> 50

gaggcggccc gtgtggcgga

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<210> 51

<211> 20

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WO 00/79006

PCT/US00/16722

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

<400> 51

gcagcggaga gcctacctgg

20

<210> 52

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

<400> 52

gcaggacaga gcctacctgg

20

<210> 53

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

<400> 53

gcagtggaga gcctacctgg

20

<210> 54

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

<400> 54

gcagctgaga acctacctgg

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WO 00/79006

PCT/US00/16722

<210> 55
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

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gcagcggaga acctacctgg 20

<210> 56
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

<400> 56
gcagctgaga gcctacctgg 20

<210> 57
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Exon Location 211-230.

<400> 57
agggcgagtg cgtggagtgg 20

<210> 58
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<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

WO 00/79006

PCT/US00/16722

<400> 58
agggcctgtg cgtggagtgg 20

<210> 59
<211> 20
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 59
agggcctgtg cgtggacggg 20

<210> 60
<211> 20
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 60
agggcctgtg cgtggagtgc 20

<210> 61
<211> 20
<212> DNA
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 61
agggcacgtg cgtggagtgc 20

<210> 62
<211> 20
<212> DNA
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WO 00/79006

PCT/US00/16722

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 62

agggcctgtg cgtggagggg

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<210> 63

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 63

aggacctgtg cgtggagtcg

20

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

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agggcacgtg cgtggagtgg

20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 65

ctccgcagac acctggagaa

20

WO 00/79006

PCT/US00/16722

<210> 66
<211> 20
<212> DNA
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 66
ctccgcagat acctggagaa

20

<210> 67
<211> 20
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 257-276.

<400> 67
ggacaagctg gagcgcgctg

20

<210> 68
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 257-276.

<400> 68
ggacacgctg gagcgcgcgg

20

<210> 69
<211> 20
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 257-276.

WO 00/79006

PCT/US00/16722

<400> 69
ggagacgctg cagcgcgcgg 20

<210> 70
<211> 20
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 1-20.

<400> 70
gctcccactt catgaggtat 20

<210> 71
<211> 20
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 1-20.

<400> 71
gctcccactc catgaggtat 20

<210> 72
<211> 20
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 72
ttctacacct ccgtgtcccg 20

<210> 73
<211> 20
<212> DNA
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WO 00/79006

PCT/US00/16722

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 73

ttctacaccg ccatgtcccg

20

<210> 74

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 74

ttcgacaccg ccatgtcccg

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<210> 75

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 75

ttccacacct ccgtgtcccg

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<210> 76

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 76

ttccacaccg ccatgtcccg

20

<210> 77

WO 00/79006

PCT/US00/16722

<211> 20
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 77
ttctacaccg ctatgtcccg

20

<210> 78
<211> 20
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 78
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<210> 79
<211> 20
<212> DNA
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 041-060.

<400> 79
gcccgtccgc ggggagcccc

20

<210> 80
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 041-060.

<400> 80

WO 00/79006

PCT/US00/16722

gcctggccgc ggggagcccc

20

<210> 81

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 041-060.

<400> 81

gcccggccgc ggggagcccc

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<210> 82

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 061-080.

<400> 82

gcttcatctc agtgggctac

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<210> 83

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 061-080.

<400> 83

gcttcatcac cgtgggctac

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<210> 84

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

WO 00/79006

PCT/US00/16722

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 061-080.

<400> 84

gcttcattgc agtgggctac

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<210> 85

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 061-080.

<400> 85

gcttcacgc agtgggctac

20

<210> 86

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA
Location 081-100.

<400> 86

gtggacgaca cccagttcgt

20

<210> 87

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Location 081-100.

<400> 87

gtggacggca cccagttcgt

20

<210> 88

<211> 20

WO 00/79006

PCT/US00/16722

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Location 081-100.

<400> 88

gtggacgaca cgctgttcgt

20

<210> 89

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Location 081-100.

<400> 89

gtggacgaca cgcagttcgt

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<210> 90

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 111-130.

<400> 90

agcgacgcca cgagtccgag

20

<210> 91

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 111-130.

<400> 91

agcgacgccg cgagtccgag

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WO 00/79006

PCT/US00/16722

<210> 92
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 096-115.

<400> 92
ttcgtgcggt tgcacagcga 20

<210> 93
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<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 096-115.

<400> 93
ttcgtgaggt tgcacagcga 20

<210> 94
<211> 20
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<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 121-140.

<400> 94
cgagtccgag agaggagccg 20

<210> 95
<211> 20
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<223> Description of Artificial Sequence: PCR Probe HLA

WO 00/79006

PCT/US00/16722

Exon Location 121-140.

<400> 95

cgagtccgag gatggcgccc

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<210> 96

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<212> DNA

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<223> Description of Artificial Sequence: PCR Probe HLA

Exon Location 121-140.

<400> 96

cgagtccgag gacggagccc

20

<210> 97

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR Probe HLA

Exon Location 121-140.

<400> 97

cgagtccgag gaaggagccg

20

<210> 98

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PR Probe HLA

Exon Location 141-160.

<400> 98

cgggcgccat ggatagagca

20

<210> 99

<211> 20

<212> DNA

WO 00/79006

PCT/US00/16722

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PR Probe HLA
Exon Location 141-160.

<400> 99

cgggcgccgt gggaggagca

20

<210> 100

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PR Probe HLA
Exon Location 141-160.

<400> 100

cgggcgccgt ggatagagca

20

<210> 101

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 161-180.

<400> 101

ggaggggccg gaatattggg

20

<210> 102

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 161-180.

<400> 102

agaggggccg gaggattggg

20

WO 00/79006

PCT/US00/16722

<210> 103
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 161-180.

<400> 103
ggagggggccg gagcattggg

20

<210> 104
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 161-180.

<400> 104
ggagggggccg gagtattggg

20

<210> 105
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 105
accggaacac acagatctac

20

<210> 106
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

WO 00/79006

PCT/US00/16722

<400> 106
accggaacac acagatcttc 20

<210> 107
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 107
accgggagac acagatctcc 20

<210> 108
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 108
accggaacac acagatctgc 20

<210> 109
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 109
accggaacac acagatctcc 20

<210> 110
<211> 20
<212> DNA
<213> Artificial Sequence

WO 00/79006

PCT/US00/16722

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 110

accgggagac acggaacatg

20

<210> 111

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 111

accgggatac acagatctcc

20

<210> 112

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 112

accgggagac acagatctgc

20

<210> 113

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 113

accgggagac acagaagtac

20

WO 00/79006

PCT/US00/16722

<210> 114
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 114
acgggggagac acggaacatg 20

<210> 115
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 115
accgggagac acagatcttc 20

<210> 116
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 201-220.

<400> 116
aaggcccagg cacagactga 20

<210> 117
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 201-220.

WO 00/79006

PCT/US00/16722

<400> 117

aagaccaaca cacagactta

20

<210> 118

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

<400> 118

aaggcctccg cgcagactta

20

<210> 119

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

<400> 119

aaggccaagg cacagactta

20

<210> 120

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

<400> 120

aaggccaagg cacagactga

20

<210> 121

<211> 20

<212> DNA

<213> Artificial Sequence

WO 00/79006

PCT/US00/16722

<220>

<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

<400> 121

aagcgccagg cacagactga

20

<210> 122

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

<400> 122

aagaccaaca cacagactga

20

<210> 123

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 123

actgaccgag agagcctgcg

20

<210> 124

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 124

acttaccgag agaacctgcg

20

<210> 125

WO 00/79006

PCT/US00/16722

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 125
acttaccgag agagcctgcg 20

<210> 126
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 126
actgaccgag aggacctgcg 20

<210> 127
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 127
acttaccgag aggacctgcg 20

<210> 128
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 128

WO 00/79006

PCT/US00/16722

actgaccgag tgagcctgcg

20

<210> 129

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 129

actgaccgag tgggcctgcg

20

<210> 130

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 130

actgaccgag agaacctgcg

20

<210> 131

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 131

ctgcgcaccg cgctccgcta

20

<210> 132

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

WO 00/79006

PCT/US00/16722

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 132
ctgcggatcg cgctccgcta 20

<210> 133
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 133
ctgcggaccc tgctccgcta 20

<210> 134
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 134
ctgcggaacc tgctccgcta 20

<210> 135
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 135
ctgcggaacc tgcgcggcta 20

<210> 136
<211> 20

WO 00/79006

PCT/US00/16722

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 251-270.

<400> 136

ctacaaccag agcgaggacg

20

<210> 137

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 251-270.

<400> 137

ctacaaccag agcgaggccg

20

<210> 138

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probes HLA
Exon 2.

<400> 138

gtccaccatc catgaggtat

20

<210> 139

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probes HLA
Exon 2.

<400> 139

cggcctcgct ctggtttag

20

WO 00/79006

PCT/US00/16722

<210> 140

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 2.

<400> 140

acccggtttc attttcagtt g

21

<210> 141

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 2.

<400> 141

cccactgccc ctggtacc

18